

Comparisons of Job Characteristics

Focus Occupation: [Chemical Equipment Operators and Tenders \(51-9011\)](#)

Associated Occupation: [Mixing and Blending Machine Setters, Operators, and Tenders \(51-9023\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 86

Focus Occupation: Chemical Equipment Operators and Tenders (51-9011)

Associated Occupation: Mixing and Blending Machine Setters, Operators, and Tenders (51-9023)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Production and Processing	6.0	13.9	8.4	<< Extensive education and/or training may be required
Chemistry	4.8	9.9	8.4	< Expanded education and/or training may be required
Mechanical	6.8	9.6	9.8	0 Current knowledge level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 91

Focus Occupation: Chemical Equipment Operators and Tenders (51-9011)

Associated Occupation: Mixing and Blending Machine Setters, Operators, and Tenders (51-9023)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Operation Monitoring	6.6	11.6	12.9	> Skill level is likely sufficient
Operation and Control	5.4	11.2	11.6	0 Current skill level may be sufficient
Quality Control Analysis	5.9	9.8	8.3	< A higher skill level may be required
Equipment Maintenance	3.5	8.4	6.2	<< Extensive development of skills in this area may be required
Repairing	3.4	7.1	5.4	< A higher skill level may be required
Equipment Selection	3.3	5.4	5.3	0 Current skill level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities

Similarity of Focus Occupation to Associated Occupation: 88

Focus Occupation: Chemical Equipment Operators and Tenders (51-9011)

Associated Occupation: Mixing and Blending Machine Setters, Operators, and Tenders (51-9023)

Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Manual Dexterity	6.5	10.8	8.4	<	Some improvement in abilities may be required
Perceptual Speed	7.4	9.7	11.4	>	Current ability level is likely sufficient
Visual Color Discrimination	6.4	9.7	8.6	<	Some improvement in abilities may be required
Rate Control	3.8	9.4	9.1	0	Current ability level may be sufficient
Reaction Time	4.8	9.0	9.7	0	Current ability level may be sufficient
Auditory Attention	5.9	8.7	9.3	0	Current ability level may be sufficient
Response Orientation	4.0	7.6	7.7	0	Current ability level may be sufficient
Wrist-Finger Speed	3.2	6.1	3.8	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 94

Focus Occupation: Chemical Equipment Operators and Tenders (51-9011)

Associated Occupation: Mixing and Blending Machine Setters, Operators, and Tenders (51-9023)

Work Activities	Exclusivity of Activity
Clean equipment or machinery	20
Collect samples for testing	58
Examine products or work to verify conformance to specifications	15
Load or unload material or workpiece into machinery	34
Maintain consistent production quality	50
Maintain or repair industrial or related equipment/machinery	39
Maintain production or work records	19
Measure, weigh, or count products or materials	17
Mix paint, ingredients, or chemicals, according to specifications	35
Monitor production machinery/equipment operation to detect problems	27
Operate chemical processing equipment	77
Operate power driven pumps	66
Perform safety inspections in manufacturing or industrial setting	33
Read work order, instructions, formulas, or processing charts	9
Test manufactured products or materials	64
Use hand or power tools	2
Use precision measuring tools or equipment	17

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 31

Focus Occupation: Chemical Equipment Operators and Tenders (51-9011)

Associated Occupation: Mixing and Blending Machine Setters, Operators, and Tenders (51-9023)

Tools and Technologies	Exclusivity
Content authoring and editing software	1
Fluid mechanics equipment	11
Information exchange software	1
Respiratory protection	6
Safety apparel	4
Temperature and heat measuring instruments	6
Vision protection and accessories	3

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.